

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0908583509](#)  
**Status:** **Active**  
**Overview:** [rast 5 connector system](#)  
**Description:** 5.00mm (.197") Pitch Appli-Mate RAST 5 Header, Vertical, 7 Circuits, Reference K41

**Documents:**

[3D Model](#) [Product Specification PS-99020-0037 \(PDF\)](#)  
[Packaging Specification \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

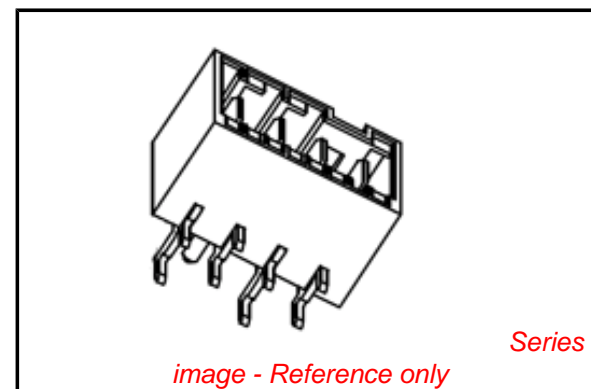
Product Family PCB Headers  
 Series [90858](#)  
 Application Wire-to-Board  
 Overview [rast 5 connector system](#)  
 Product Name RAST 5

**Physical**

Breakaway No  
 Circuits (Loaded) 7  
 Circuits (maximum) 7  
 Color - Resin Natural  
 Durability (mating cycles max) 10  
 First Mate / Last Break No  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Guide to Mating Part No  
 Keying to Mating Part None  
 Lock to Mating Part None  
 Material - Metal Brass  
 Material - Plating Mating Tin  
 Material - Plating Termination Tin  
 Number of Rows 1  
 Orientation Vertical  
 PC Tail Length (in) 0.138 In  
 PC Tail Length (mm) 3.50 mm  
 PCB Locator Yes  
 PCB Retention None  
 PCB Thickness Recommended (in) 0.055 In  
 PCB Thickness Recommended (mm) 1.40 mm  
 Packaging Type Bag  
 Pitch - Mating Interface (in) 0.197 In  
 Pitch - Mating Interface (mm) 5.00 mm  
 Polarized to PCB Yes  
 Shrouded Fully  
 Stackable Yes  
 Surface Mount Compatible (SMC) No  
 Temperature Range - Operating -20°C to +85°C  
 Termination Interface: Style Through Hole

**Electrical**

Current - Maximum per Contact 16A



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Halogen-Free Status**  
**Not Reviewed**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[90858Series](#)

**Mates With**

Appli-Mate 5.0 IDT Connector System  
 Female Receptacle [90835](#) , [90833](#)

Voltage - Maximum

250V

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification

PK-90858-001

Product Specification

PS-99020-0037

Sales Drawing

SD-90858-001

This document was generated on 06/08/2010

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13 12 11 10 9 8 7 6 5 4 3 2 1



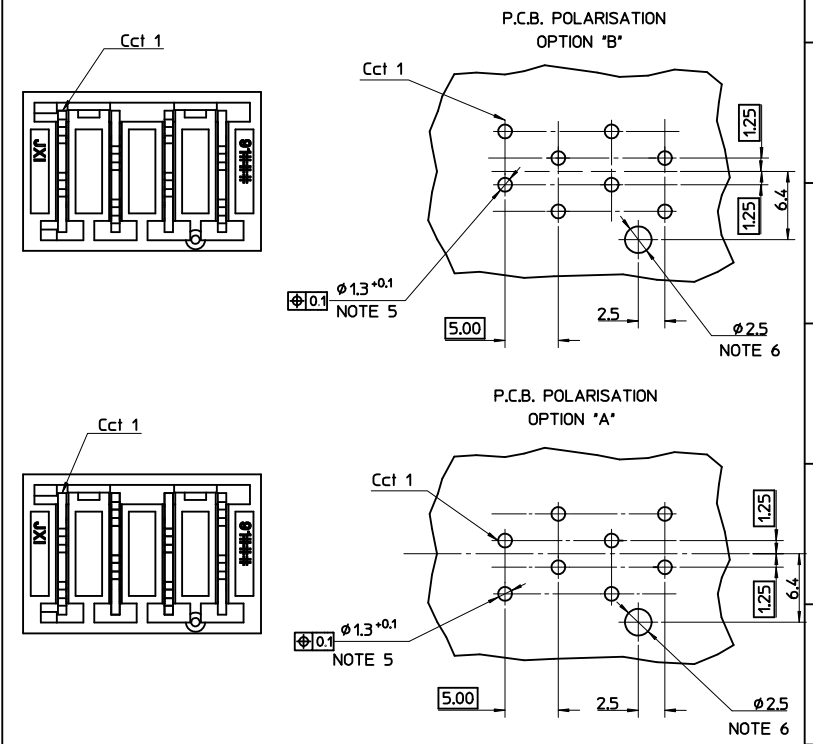
HOLES ON SOME TOOLED VERSIONS



| CCT | DIM A | DIM B | DIM C | TOL     |
|-----|-------|-------|-------|---------|
| 2   | 5.00  | 10.20 | 12.30 |         |
| 3   | 10.00 | 15.20 | 17.30 |         |
| 4   | 15.00 | 20.20 | 22.30 |         |
| 5   | 20.00 | 25.20 | 27.30 |         |
| 6   | 25.00 | 30.20 | 32.30 | +/-0.30 |
| 7   | 30.00 | 35.20 | 37.30 |         |
| 8   | 35.00 | 40.20 | 42.30 |         |
| 9   | 40.00 | 45.20 | 47.30 |         |
| 10  | 45.00 | 50.20 | 52.30 |         |
| 11  | 50.00 | 55.20 | 57.30 |         |
| 12  | 55.00 | 60.20 | 62.30 |         |

- NOTES:
- MATERIALS  
HOUSING: 30% GLASS-FILLED PBT, UL94 V-0  
TERMINAL: BRASS 0.80REF. THICK  
PLATING: OPTIONAL (SEE CHARTS SHEETS 2-9)  
5µm TIN OVER  
2.5µm NICKEL ALLOVER  
SELECTIVE SILVER  
2µm MIN SILVER  
2.5µm NICKEL ALLOVER
  - PRODUCT CONFORMS TO SPECIFICATION PS-99020-0037
  - MATES WITH MOLEX 91338, 90833, 90835, 91777, 91778 & 91779
  - PARTS PACKAGED LOOSE IN PLASTIC BAGS
  - PLATED THRU HOLE
  - NON-PLATED THRU HOLE
  - RECOMMENDED PCB THICKNESS: 1.4±0.1mm
  - PCB VIEW IS FROM SOLDER SIDE

RECOMMENDED PCB LAYOUT



|  |                             |   |                      |                            |                     |                              |                        |                        |
|--|-----------------------------|---|----------------------|----------------------------|---------------------|------------------------------|------------------------|------------------------|
| MOULD PROCESS CHANGE<br>EC NO: E2010-0370<br>DRAWN: BRUTTLE 2010/05/13<br>CHKD: IDENEY 2004/05/27<br>APPR: BMAGUIRE 2010/06/08 | QUALITY SYMBOLS<br>=0<br>=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                      | DIMENSION STYLE<br>MM ONLY |                     | SCALE<br>1:1                 | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |
|  |                             | 4 PLACES ± --- ± ---  | 3 PLACES ± 0.1 ± --- | 2 PLACES ± 0.2 ± ---       | 1 PLACE ± 0.2 ± --- | ANGULAR ± 2 °                | DRAWN BY<br>NMCNAMAR   | DATE<br>2004/05/26     |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS   |                             | APPROVED BY<br>BMAGUIRE   |                      | DATE<br>2004/05/28         |                     | MATERIAL NO.<br>SD-90858-001 |                        |                        |
| SIZE<br>A2   |                             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                            |                     |                              |                        |                        |

12 11 10 9 8 7 6 5 4 3 2 1

# 2 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING  
FORMAT WHEN ADDING NEW PART NUMBERS

| PART NO. (TIN) | CLOUR   | UNBLOCKED POSITION KEYS | UNBLOCKED CODING KEYS | LATCH POSITION | CONFIGURATION (SEE NOTES) | REF | PART NO. (SILVER) | P.C.B. POLARISATION OPTION |
|----------------|---------|-------------------------|-----------------------|----------------|---------------------------|-----|-------------------|----------------------------|
| 90858-0003     | NATURAL | 1b 2a                   | 01c d20               | 1/2            |                           | K01 | 90858-0499        | A                          |
| 90858-0004     | NATURAL | 1a 2b                   | 01c                   | 1/2            |                           | K02 | 90858-0482        | A                          |
| 90858-0007     | NATURAL | 1b 2b                   | 01c                   | 1/2            |                           | K09 | 90858-0497        | A                          |
| 90858-0018     | NATURAL | 2a                      | 01c, d20              | 1/2            |                           | K03 | 90858-0495        | A                          |
| 90858-0019     | NATURAL | 1a 2b                   | d20                   | 1/2            |                           | K05 | 90858-0478        | A                          |
| 90858-0021     | NATURAL | 1b                      | 01c, d20              | 1/2            |                           | K16 | 90858-0492        | A                          |
| 90858-0022     | NATURAL | 1a 2b                   | NONE                  | 1/2            |                           | K06 | 90858-0491        | A                          |
| 90858-0027     | NATURAL | 2b                      | NONE                  | 1/2            |                           | K11 | 90858-0487        | A                          |
| 90858-0029     | NATURAL | 1a 1b                   | d20                   | 1/2            |                           | K13 | 90858-0486        | A                          |
| 90858-0030     | NATURAL | 2a 2b                   | NONE                  | 1/2            |                           | K31 | 90858-0485        | A                          |
| 90858-0032     | NATURAL | 2b                      | d20                   | 1/2            |                           | K38 | 90858-0484        | A                          |
| 90858-0047     | NATURAL | 1a 2a                   | 01c d20               | 1/2            |                           | K44 | 90858-0483        | A                          |
| 90858-0055     | NATURAL | 1a 1b                   | NONE                  | 1/2            |                           | K40 | 90858-0480        | A                          |
| 90858-0020     | NATURAL | 1a 1b                   | 01c                   | 1/2            |                           | K04 | 90858-0475        | A                          |
| 90858-0054     | NATURAL | 2b                      | 01c d20               | 1/2            |                           | K15 | 90858-0476        | A                          |
| 90858-0057     | NATURAL | 1a                      | 01c d20               | 1/2            |                           | K12 | 90858-0477        | A                          |
| 90858-0058     | NATURAL | 1a 2a                   | 01c                   | 1/2            |                           | K10 | 90858-0472        | A                          |
| 90858-0059     | NATURAL | ALL                     | d20                   | 1/2            |                           | K34 | 90858-0474        | A                          |
| 90858-0060     | NATURAL | 1b 2a 2b                | d20                   | 1/2            |                           | K07 | 90858-0473        | A                          |
| 90858-0061     | NATURAL | 1b 2a                   | 01c d20               | 1/2            |                           | K01 | 90858-0471        | B                          |
|                |         |                         |                       |                |                           |     |                   |                            |
|                |         |                         |                       |                |                           |     |                   |                            |
|                |         |                         |                       |                |                           |     |                   |                            |



KEYING, CODING & LATCH POSITION  
(4CCT EXAMPLE SHOWN)  
VIEW INMATING DIRECTION

|  |   |  |  |                              |                     |  |  |
|--|---|--|--|------------------------------|---------------------|--|--|
| <b>SEE SHEET 1</b><br>EC NO: E2010-0370<br>DRN:BRUTTE 2010/05/13<br>CHKD:JDENNEHY 2004/05/27<br>APPR:BMAGUIRE 2010/06/08 | QUALITY SYMBOLS   | GENERAL TOLERANCES (UNLESS SPECIFIED)  | DIMENSION STYLE  | SCALE                        | DESIGN UNITS        | THIRD ANGLE PROJECTION                                     |  |
|  | $\nabla=0$<br>$\nabla=0$  | mm    INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.1 ± ---<br>1 PLACE ± 0.2 ± ---<br>ANGULAR ± 2 ° | MM ONLY<br>DRAWN BY DATE<br>NMCNAR 2004/05/26<br>CHECKED BY DATE<br>JDENNEHY 2004/05/27<br>APPROVED BY DATE<br>BMAGUIRE 2004/05/28 | 1:1                          | METRIC              | <input checked="" type="checkbox"/> THIRD ANGLE PROJECTION |  |
|  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  | SEE CHART  | MATERIAL NO.<br>SD-90858-001   | DOCUMENT NO.<br>SD-90858-001 | SHEET NO.<br>2 OF 7 | RAST 5 VERT HDR<br>MOLEX INCORPORATED                      |  |
|  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |  |                              |                     |  |  |

| 3 CIRCUIT         |         |                            |                          |                   |                              |     |                      | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS |  | P.C.B.<br>POLARISATION<br>OPTION |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|-----|----------------------|---|--|----------------------------------|
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS | UNBLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER) |   |  |                                  |
| 90858-0502        | NATURAL | 1b                         | 01c, d20                 | 1/2               |                              | K01 | 90858-1249           | A   |  |                                  |
| 90858-0508        | NATURAL | 1a                         | 03c                      | 1/2               |                              | K04 | 90858-1248           | A   |  |                                  |
| 90858-0511        | NATURAL | 1a 1b                      | d30                      | 1/2               |                              | K05 | 90858-1247           | A   |  |                                  |
| 90858-0512        | NATURAL | 1a 3b                      | 01c                      | 1/2               |                              | K06 | 90858-1246           | A   |  |                                  |
| 90858-0513        | NATURAL | 1b                         | d20 03c                  | 1/2               |                              | K09 | 90858-1245           | A   |  |                                  |
| 90858-0524        | NATURAL | 1b 2a 2b                   | d30                      | 1/2               |                              | K33 | 90858-1244           | A   |  |                                  |
| 90858-0525        | NATURAL | 2b                         | d20                      | 1/2               |                              | K56 | 90858-1243           | A   |  |                                  |
| 90858-0528        | NATURAL | ALL                        | d10 d30                  | 2/3               |                              | K38 | 90858-1242           | A   |  |                                  |
| 90858-0527        | NATURAL | ALL                        | d20                      | 1/2               |                              | K40 | 90858-1240           | A   |  |                                  |
| 90858-0526        | NATURAL | 2b 3b                      | d10 02c                  | 2/3               |                              | K02 | 90858-1241           | A   |  |                                  |
| 90858-0529        | NATURAL | 1b                         | 01c d20                  | 1/2               |                              |     | 90858-1239           | A   |  |                                  |
| 90858-0530        | NATURAL | 3b                         | d10, d30                 | 2/3               |                              |     | 90858-1238           | A   |  |                                  |
| 90858-0531        | NATURAL | 3b                         | 01c, d30                 | 2/3               |                              |     | 90858-1237           | A   |  |                                  |
| 90858-0532        | NATURAL | 3b                         | d10, 02c                 | 2/3               |                              |     | 90858-1236           | A   |  |                                  |
|                   |         |                            |                          |                   |                              |     |                      |   |  |                                  |
|                   |         |                            |                          |                   |                              |     |                      |   |  |                                  |

| 4 CIRCUIT         |         |                            |                          |                   |                              |     |                      | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS |  | P.C.B.<br>POLARISATION<br>OPTION |
|-------------------|---------|----------------------------|--------------------------|-------------------|------------------------------|-----|----------------------|---|--|----------------------------------|
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS | UNBLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER) |   |  |                                  |
| 90858-1254        | NATURAL | 1b                         | 03c d40                  | 1/2 3/4           |                              | K01 | 90858-1999           | A   |  |                                  |
| 90858-1264        | NATURAL | 1a 4b                      | d40                      | 1/2 3/4           |                              | K03 | 90858-1998           | A   |  |                                  |
| 90858-1265        | NATURAL | 2a 4b                      | d20                      | 1/2 3/4           |                              | K07 | 90858-1996           | A   |  |                                  |
| 90858-1267        | NATURAL | 1b 2a 3a 4b                | 01c d40                  | 1/2 3/4           |                              | K37 | 90858-1994           | A   |  |                                  |
| 90858-1270        | NATURAL | 1a 2b 4b                   | 01c 03c d40              | 1/2 3/4           |                              | K44 | 90858-1993           | A   |  |                                  |
| 90858-1274        | NATURAL | 1a 3a 3b                   | 01c d20 d40              | 1/2 3/4           |                              | K32 | 90858-1992           | A   |  |                                  |
| 90858-1275        | NATURAL | 1b 2a 4b                   | 01c d20 03c              | 1/2 3/4           |                              | K61 | 90858-1991           | A   |  |                                  |
| 90858-1278        | NATURAL | 1a 3a                      | d40                      | 1/2 3/4           |                              | K06 | 90858-1987           | A   |  |                                  |
| 90858-1280        | NATURAL | 1a 2b 3b 4a                | 01c 03c d40              | 1/2 3/4           |                              | K65 | 90858-1988           | A   |  |                                  |
| 90858-1281        | NATURAL | 2a 4b                      | d20 03c                  | 1/2 3/4           |                              | K30 | 90858-1986           | A   |  |                                  |
| 90858-1282        | NATURAL | 3b                         | d30                      | 2/3               |                              | K04 | 90858-1985           | A   |  |                                  |
| 90858-1283        | NATURAL | 1b 2a 4b                   | 01c d20 03c d40          | 1/2 3/4           |                              | N/A | 90858-1984           | A   |  |                                  |
| 90858-1284        | NATURAL | 2a 3a 3b 4b                | 01c d20 03c d40          | 1/2 3/4           |                              | N/A | 90858-1983           | A   |  |                                  |
|                   |         |                            |                          |                   |                              |     |                      |   |  |                                  |
|                   |         |                            |                          |                   |                              |     |                      |   |  |                                  |
|                   |         |                            |                          |                   |                              |     |                      |   |  |                                  |

|  |                         |  |  |  |  |   |                        |   |                                 |  |
|--|-------------------------|--|--|--|--|---|------------------------|---|---------------------------------|--|
| <b>SEE SHEET 1</b><br>EEC NO: E2010-0370<br>DRAWN BY: DRWNBRUTLE<br>CHECKED BY: CHKD.DENNEHY<br>APPROVED BY: APPR.BMAGUIRE<br>2010/05/13<br>2004/05/27<br>2010/06/08 | QUALITY SYMBOLS<br><br> | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.1 ± ---<br>1 PLACE ± 0.2 ± ---<br>ANGULAR ± 2 ° |  | DIMENSION STYLE<br><b>MM ONLY</b><br>DRAWN BY: NMCNAMAR<br>DATE: 2004/05/26<br>CHECKED BY: JDENNEHY<br>DATE: 2004/05/27<br>APPROVED BY: BMAGUIRE<br>DATE: 2004/05/28 |  | SCALE<br>1:1  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION<br>                | TITLE<br><b>RAST 5 VERT HDR</b> |  |
|  |                         | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |  | SEE CHART<br>SIZE 1  |  | MATERIAL NO.<br>DOCUMENT NO.<br><b>SD-90858-001</b> |                        | MOLEX INCORPORATED<br>SHEET NO.<br>3 OF 7 |                                 |  |
|  |                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                                    |  |  |  |   |                        |   |                                 |  |
|  |                         | SEE CODE DESIGNATION TABLE FOR NUMBERING FORMAT WHEN ADDING NEW PART NUMBERS   |  |  |  |   |                        |   |                                 |  |

### 5 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING  
FORMAT WHEN ADDING NEW PART NUMBERS

| PART NO.<br>(TIN) | COLOUR  | UNLOCKED<br>POSITION KEYS | UNLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER) | P.C.B.<br>POLARISATION<br>OPTION |
|-------------------|---------|---------------------------|-------------------------|-------------------|------------------------------|-----|----------------------|----------------------------------|
| 90858-2000        | NATURAL | 1a 5b                     | 01c d30                 | 1/2 2/3           |                              | K01 | 90858-2749           | A                                |
| 90858-2001        | NATURAL | 1a 3a                     | 01c d30                 | 1/2 4/5           |                              | K30 | 90858-2748           | A                                |
| 90858-2002        | NATURAL | 1a 5b                     | 01c d20<br>03c d50      | 1/2 3/4           |                              | K31 | 90858-2747           | A                                |
| 90858-2003        | NATURAL | 1b 2a 3b 5a               | 01c 03c                 | 1/2 3/4           |                              | K35 | 90858-2746           | A                                |
| 90858-2004        | NATURAL | 1a 2a 2b 4b 5b            | 01c d30<br>04c d50      | 1/2 2/3 4/5       |                              | K36 | 90858-2745           | A                                |
| 90858-2006        | NATURAL | 2a                        | 01c d50                 | 2/3 4/5           |                              | K43 | 90858-2742           | A                                |
| 90858-2012        | NATURAL | 2a 4b                     | 01c d20 d40             | 1/2 3/4           |                              | K44 | 90858-2743           | A                                |
| 90858-2013        | NATURAL | 2b                        | d20                     | 1/2 4/5           |                              | K02 | 90858-2741           | A                                |
| 90858-2014        | NATURAL | 4b 5a                     | 01c d30<br>04c d50      | 1/2 4/5           |                              | K45 | 90858-2740           | A                                |
| 90858-2015        | NATURAL | NONE                      | 01c d40                 | 1/2 3/4           |                              | K46 | 90858-2739           | A                                |
| 90858-2017        | NATURAL | 1a 4a                     | d30                     | 1/2 4/5           |                              | K04 | 90858-2737           | A                                |
| 90858-2024        | NATURAL | 1a 5b                     | d20 d40                 | 1/2 3/4           |                              | K77 | 90858-2732           | A                                |
| 90858-2025        | NATURAL | 2b                        | d20 d50                 | 1/2 3/4           |                              | K95 | 90858-2733           | A                                |
| 90858-2026        | NATURAL | 1a 5b                     | 01c d20 03c<br>d50      | 1/2 3/4           |                              |     | 90858-2734           | A                                |
| 90858-2027        | NATURAL | 1a 3a 4b 5a               | 03c 04c                 | 1/2 4/5           |                              | K73 | 90858-2735           | A                                |
| 90858-2028        | NATURAL | 2b                        | d20                     | 1/2 4/5           |                              |     | 90858-2731           | A                                |
| 90858-2029        | NATURAL | 1b 2a 4a                  | 01c 04c d50             | 1/2 4/5           |                              | K51 | 90858-2730           | A                                |
| 90858-2030        | NATURAL | 2b 3b 4a                  | 01c d20 d40             | 1/2 3/4           |                              | K52 | 90858-2729           | A                                |
| 90858-2031        | NATURAL | 1a 5b                     | 01c d20 03c<br>d50      | 1/2 4/5           |                              | K86 | 90858-2728           | A                                |
| 90858-2032        | NATURAL | 1a 1b 4a                  | d30 04c d50             | 1/2 4/5           |                              | K64 | 90858-2727           | A                                |
| 90858-2033        | NATURAL | 1a 5b                     | 01c d20<br>03c d50      | 1/2 3/4           |                              |     | 90858-2726           | B                                |

### 6 CIRCUIT

SEE CODE DESIGNATION TABLE FOR NUMBERING  
FORMAT WHEN ADDING NEW PART NUMBERS

| PART NO.<br>(TIN) | COLOUR  | UNLOCKED<br>POSITION KEYS | UNLOCKED<br>CODING KEYS | LATCH<br>POSITION | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER) | P.C.B.<br>POLARISATION<br>OPTION |
|-------------------|---------|---------------------------|-------------------------|-------------------|------------------------------|-----|----------------------|----------------------------------|
| 90858-2753        | NATURAL | 1b                        | 03c d60                 | 1/2 4/5           |                              | K01 | 90858-3499           | A                                |
| 90858-2754        | NATURAL | 1a 3b 4b                  | 01c d50 06c             | 1/2 4/5           |                              | K30 | 90858-3498           | A                                |
| 90858-2755        | NATURAL | 1a 1b 2b 3a<br>3b 4b      | d30 04c d50             | 1/2 2/3 4/5       |                              | K37 | 90858-3497           | A                                |
| 90858-2756        | NATURAL | 1a 1b<br>4a 4b            | d10 d50                 | 2/3 4/5           |                              | K39 | 90858-3496           | A                                |
| 90858-2757        | NATURAL | 2a 4b 5a 6b               | d20 03c 05c             | 1/2 3/4 5/6       |                              | K42 | 90858-3495           | A                                |
| 90858-2758        | NATURAL | 1a 2b 3a<br>3b 5b 6b      | 01c d40 d60             | 1/2 3/4 5/6       |                              | K43 | 90858-3494           | A                                |
| 90858-2759        | NATURAL | 1b 2a 3a 4b<br>5a 5b 6b   | 01c 03c d60             | 1/2 3/4 5/6       |                              | K44 | 90858-3493           | A                                |
| 90858-2761        | NATURAL | 2b                        | d20 d60                 | 1/2 5/6           |                              | K46 | 90858-3492           | A                                |
| 90858-2762        | NATURAL | 2b 3b 4a                  | 01c d50 06c             | 1/2 4/5           |                              | K36 | 90858-3491           | A                                |
| 90858-2768        | NATURAL | 1b 4b                     | d20 03c<br>d50 06c      | 1/2 4/5           |                              | K58 | 90858-3486           | A                                |
| 90858-2769        | NATURAL | 1a 2b 3b<br>4a 6b         | 01c 03c d40<br>05c d60  | 1/2 3/4 5/6       |                              | K59 | 90858-3485           | A                                |
| 90858-2770        | NATURAL | 1a 2b 4a 6b               | 01c d40                 | 1/2 3/4 5/6       |                              | K62 | 90858-3484           | A                                |
| 90858-2771        | NATURAL | 1b 6b                     | d40                     | 1/2 5/6           |                              | K04 | 90858-3483           | A                                |
| 90858-2772        | NATURAL | 1b 2a 3a 4b<br>5a 5b 6b   | 01c d60                 | 2/3 5/6           |                              | K15 | 90858-3482           | A                                |
|                   |         |                           |                         |                   |                              |     |                      |                                  |
|                   |         |                           |                         |                   |                              |     |                      |                                  |

|  |                               |  |  |  |                          |   |                              |                     |  |
|--|-------------------------------|--|--|--|--------------------------|---|------------------------------|---------------------|--|
| SEE SHEET 1<br>EC NO: E2010-0370<br>DRW:BRUTTE 2010/05/13<br>CHKD:JDENNEY 2004/05/27<br>APPR:BMAGUIRE 2010/06/08 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.1 ± ---<br>1 PLACE ± 0.2 ± ---<br>ANGULAR ± 2 ° | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY DATE<br>NMCNAMAR 2004/05/26<br>CHECKED BY DATE<br>JDENNEY 2004/05/27<br>APPROVED BY DATE<br>BMAGUIRE 2004/05/28 | SCALE<br>1:1<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION | TITLE<br>RAST 5 VERT HDR | MATERIAL NO.<br>SEE CHART   | DOCUMENT NO.<br>SD-90858-001 | SHEET NO.<br>4 OF 7 |  |
|  |                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   |  | MOLEX INCORPORATED   |                          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                              |                     |  |
|  |                               |  |  |  |                          |   |                              |                     |  |
|  |                               |  |  |  |                          |   |                              |                     |  |



| 9 CIRCUIT         |         |                                  |                          |                        |                              |     | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS |   | P.C.B.<br>POLARISATION<br>OPTION |
|-------------------|---------|----------------------------------|--------------------------|------------------------|------------------------------|-----|---|---|----------------------------------|
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS       | UNBLOCKED<br>CODING KEYS | LATCH<br>POSITION      | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER)  |   |                                  |
| 90858-5002        | NATURAL | 1a 2a 2b 3a<br>3b 6a 7a 8b<br>9b | d20 03c d40<br>d50 d90   | 1/2 3/4 6/7<br>7/8 8/9 |                              | K30 | 90858-5997  | A |                                  |
| 90858-5003        | NATURAL | 1b 2a 3b 5a<br>6a 7b 8a 8b       | 01c 03c d70<br>08c       | 1/2 3/4 6/7<br>8/9     |                              | K31 | 90858-5996  | A |                                  |
| 90858-5004        | NATURAL | 1b 2a 3a 5a<br>6a 7b 8b          | 01c 03c d70<br>08c d90   | 1/2 3/4 6/7<br>8/9     |                              | K32 | 90858-5995  | A |                                  |
| 90858-5005        | NATURAL | 1a 1b 3a 4b<br>5a 6b 7a          | 01c d40 09c              | 1/2 3/4 5/6<br>7/8     |                              | K37 | 90858-5994  | A |                                  |
| 90858-5006        | NATURAL | 1b 5a 8a 9a                      | 03c d40 d60<br>08c       | 1/2 3/4 5/6<br>8/9     |                              | K38 | 90858-5993  | A |                                  |
| 90858-5007        | NATURAL | 2a 4b 5a 6b<br>7a 9a             | d20 05c 07c              | 1/2 3/4 5/6<br>7/8     |                              | K39 | 90858-5992  | A |                                  |
| 90858-5009        | NATURAL | 5b                               | d30 d70                  | 1/2 6/7                |                              | K04 | 90858-5989  | A |                                  |
| 90858-5012        | NATURAL | 2b 3b 4a 5a<br>6b                | d10 02c 04c<br>08c d90   | 2/3 4/5 6/7<br>8/9     |                              | K40 | 90858-5988  | A |                                  |
| 90858-5011        | NATURAL | 2b 5a                            | d80                      | 2/3 7/8                |                              | K03 | 90858-5987  | A |                                  |
| 90858-5010        | NATURAL | 2b 3b 4b 6a                      | 01c d20 d40<br>05c d90   | 1/2 3/4 6/7<br>8/9     |                              | K49 | 90858-5986  | A |                                  |
| 90858-5013        | NATURAL | 1b 2a 4b 5a<br>8b 9b             | 01c d20 d70<br>08c       | 1/2 4/5 6/7<br>8/9     |                              | K58 | 90858-5985  | A |                                  |
|                   |         |                                  |                          |                        |                              |     |   |   |                                  |
|                   |         |                                  |                          |                        |                              |     |   |   |                                  |
|                   |         |                                  |                          |                        |                              |     |   |   |                                  |
|                   |         |                                  |                          |                        |                              |     |   |   |                                  |
|                   |         |                                  |                          |                        |                              |     |   |   |                                  |

| 10 CIRCUIT        |         |  |                                   |                         |                              |     | SEE CODE DESIGNATION TABLE FOR NUMBERING<br>FORMAT WHEN ADDING NEW PART NUMBERS |   | P.C.B.<br>POLARISATION<br>OPTION |
|-------------------|---------|--|-----------------------------------|-------------------------|------------------------------|-----|---|---|----------------------------------|
| PART NO.<br>(TIN) | COLOUR  | UNBLOCKED<br>POSITION KEYS                           | UNBLOCKED<br>CODING KEYS          | LATCH<br>POSITION       | CONFIGURATION<br>(SEE NOTES) | REF | PART NO.<br>(SILVER)  |   |                                  |
| 90858-6002        | NATURAL | 2a 3b 6a 9a  | 03c d80                           | 1/2 4/5 6/7<br>9/10     |                              | K30 | 90858-6997  | A |                                  |
| 90858-6003        | NATURAL | 1a 3b 7b 9b  | 01c d20 d40<br>05c 07c            | 1/2 3/4 5/6<br>7/8 9/10 |                              | K35 | 90858-6996  | A |                                  |
| 90858-6009        | NATURAL | 1b 2a 2b 4a 5b<br>6a 8a 9a 10a                       | d30 04c 06c<br>09c                | 1/2 4/5 6/7<br>9/10     |                              | K41 | 90858-6988  | A |                                  |
| 90858-6010        | NATURAL | 1a 3b 4b<br>8a 10a 10b                               | 01c d50 06c<br>07c d80 09c        | 1/2 4/5 7/8<br>9/10     |                              | K42 | 90858-6987  | A |                                  |
| 90858-6012        | NATURAL | 2a 4b 8a 10a   | d20 05c d70<br>08c                | 1/2 3/4 5/6<br>8/9      |                              | K44 | 90858-6986  | A |                                  |
| 90858-6015        | NATURAL | 1b 2a 3a<br>4b 5b 9a                                 | 01c d40 d60<br>07c 09c d100       | 1/2 3/4 5/6<br>7/8 9/10 |                              | K48 | 90858-6983  | A |                                  |
| 90858-6016        | NATURAL | 1a 4b 6b 9a  | 03c 04c d50<br>06c d70 08c<br>d90 | 1/2 4/5 6/7<br>8/9      |                              | K36 | 90858-6982  | A |                                  |
| 90858-6021        | NATURAL | 1a 3b 7b 8a  | 01c d20 d40<br>05c d100           | 1/2 3/4 5/6<br>7/8 9/10 |                              | K33 | 90858-6977  | A |                                  |
| 90858-6022        | NATURAL | 10a  | d20 08c                           | 1/2 9/10                |                              | K56 | 90858-6976  | A |                                  |
| 90858-6023        | NATURAL | 1b 3b 5b 9a  | 01c d60 07c<br>09c d100           | 1/2 3/4 5/6<br>7/8 9/10 |                              | K36 | 90858-6975  | A |                                  |
| 90858-6024        | NATURAL | 1b 2b 4a 7a 9a<br>9b                                 | d20 d30 d50<br>06c d70 d80        | 1/2 4/5 6/7<br>9/10     |                              | K43 | 90858-6974  | A |                                  |
| 90858-6025        | NATURAL | 1a 2a 2b 3a 4a<br>4b 5a 6a 6b 7a<br>8a 8b 9a 10a 10b | NONE                              | 1/2 3/4 5/6<br>7/8 9/10 |                              | K45 | 90858-6973  | A |                                  |
| 90858-6026        | NATURAL | 2a 2b 3a 4a<br>5a 9a 10a                             | d20 d40 07c<br>d70 08c d100       | 1/2 3/4 5/6<br>8/9      |                              | K46 | 90858-6972  | A |                                  |
| 90858-6027        | NATURAL | 1b 2a 3a 4b 6a<br>7a 8a 8b                           | 01c d40 d60<br>d80                | 1/2 3/4 5/6<br>9/10     |                              | K49 | 90858-6971  | A |                                  |
| 90858-6028        | NATURAL | 1b 5a 8b 9a 10b                                      | 03c d40 d80<br>09c                | 1/2 3/4 5/6<br>7/8 9/10 |                              | K50 | 90858-6970  | A |                                  |
| 90858-6029        | NATURAL | 1b 3a 4a 4b 6b<br>9a 9b                              | 01c d50 06c<br>d70 09c            | 1/2 4/5 6/7<br>9/10     |                              | K51 | 90858-6969  | A |                                  |
| 90858-6030        | NATURAL | 1b 4a 7a 9a  | 01c d20 06c<br>d80 09c            | 1/2 4/5 7/8<br>9/10     |                              | K52 | 90858-6968  | A |                                  |

|  |   |                               |  |                            |   |                        |                          |                     |
|--|---|-------------------------------|--|----------------------------|---|------------------------|--------------------------|---------------------|
| SEE SHEET 1<br>EC NO: E2010-0370<br>DRAWN: BRUTTE<br>CHKD: JENNEHY<br>APPR: BMAGUIRE | 2010/05/13<br>2004/05/27<br>2010/06/08  | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.1 ± ---<br>1 PLACE ± 0.2 ± ---<br>ANGULAR ± 2 ° | DIMENSION STYLE<br>MM ONLY | SCALE<br>1:1                              | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION   |                     |
|  | DRAWN BY DATE<br>NMCNAMAR 2004/05/26  |                               | CHECKED BY DATE<br>JDENNEHY 2004/05/27   |                            | APPROVED BY DATE<br>BMAGUIRE 2004/05/28   |                        | TITLE<br>RAST 5 VERT HDR |                     |
|  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                               | SEE CHART  |                            | MATERIAL NO. DOCUMENT NO.<br>SD-90858-001 |                        | MOLEX INCORPORATED       |                     |
|  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                               |  |                            |   |                        |                          | SHEET NO.<br>6 OF 7 |



